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OPERATING MANUAL he a complete analysis of condensors under either stelle MODEL OF CAPACITOR EXAMETERS

This addition applies to serial numbers starting at 70,300. The performance characteristics of radio and video The EXAMETER is more than an enelyser. It EXAMINES electrical condensary for every feature roleting to quality and performance.

Results are prompt and certain. MODEL CE-1-00 CAPACITOR EXAM-ETER POWER LINE CONNECTIONS The Solar Model CS-1-60 Capacitor Sum-attr is designed for use on 110 value 50-60 cycles. It should not

be connected to power lines which supply other unblage MODEL CELLU CAPACITOR EXAMETER FOWER LINE CONNECTIONS The Solar Model CE-2U is a universal instrument

which can be operated from power lines rated at 120, 165 or 240 volts, 25 to 60 epoles To since the Capacitor Exemeter into aperation remine the small matel selete in the back of the cabinet and locart the play in the jack corresponding with the evaliable line voltage.

receivers have imposed requirements which can be maintained only by the use of high quality companied parts. These parts, especially condensors and resistors form their designated functions properly. If satisfact Conducery have a delylocatel effect on recept

al determining the quality or operating afficiency of a conductor requires a complete analysis of its on to this instrument conductors may be feeled copecity, leskage, insulation resistence, power opens, shorts, intermittents, and R.F. Impo with the full development of the quick should fee also the bridge-mater, we find it possible to pro on inchessed which will obe every qualitative to quantitative recommend of capacitors seconstry modern servicing by meens of a simple mater re-It talk the complete performance story of all type paper, mica, electrolytic, trimmer and air condensers Checking for quality is done under conditions of all static or dynamic performance; the condenser un test may be operating in a circuit, or it may be disco-

in addition a vacuum tube voltmater is provi for measurements of circuit voltage to determine the required voltage rating of the condensor under test. The V.T. voltmater can be used for eligning R.F. sincults, checking A.V.C. veltages, and checking outp breck and signal voltages at various points throughout

Accorately calibrated markings on the panel are provided for convenient measurements of capacity and resistance. These tests are made on a Wise Bill with the elevent reading ranges, by multiplying the seed troop can be read directly from a scale which is cal basind own to 50% power factor. The capacity na of the instrument is from 20001 mid, to 2000 mid. resistance range from 50 ohms to 10,000 mago meter is used as a real indicator. This chance from our previous sull indicator for which an electric type was ameliand, has been made to provide greater possitivity and an easier and more positive balance.

OPERATING INSTRUCTIONS

Model: CE-140 110 volts Model: CE-2-U 120, 145, 240 volte

The Salar Capacitor frameter provides service man and laboratories with an analyzer that combines is one instrument a convenient and simple method of mak-

Only has terminals are used for all condensors or recidence measurements. There are fires other termin on the panel which are used when making a

subsest managements. The maltide solids the Consoller ... Exameter extensionly connects the unit under test

The leakage test section of the instrument comists leakage is read directly on a D.C. miliammeter. A leabang revised up to 50 milliameters can be measured gloss with the actual D.C. voltage impressed on the electrolytic capacitors of any rating up to 550 volts. when set on the 50 ms. range is protected against

fastage electrolytics. The magales range of the instrument is particularly useful for the measurements of impletion resistance on according direct and positive means of making recovers mants as the mater did is accurately calibrated in

massless. In code communities additions and after the The associate of the bedrament is blob and will be The range accorned by this part of the instrument is

from I manches to 10,000 manches in these constants and QC are incorporated in this instrument. The Child Check matter possible expedicity of a complex halanced radio framancy suffator, a visual indicator in the form auditates section is accounted to easyft easy and needly names condition. The condenser under but may be assess the beautiful to be been be disconnected. The

The instructions to follow mostly certain limits which have been out or standards to be used as a mide to specification will be found patisfactory in operation. while there retested will interfere with satisfactory course. tion of the circuit in which they are used

On the other hand, It is well known that conditioners used in certain specific directs may be more or possibly your health hidicate. Those exceptional cases can be CAUTICAL Do not receive as because the hiden con-

tral brain, since this is carefully set during calibra-

CHANTITATIVE MEASUREMENTS

In order to make quantitative measurements at least

Ye make the instrument ready for test, the following I. Insert the feet leads, with the rubber protection

over the elps, into the tip laste marked "Cond. the last to obtain the council reduction

2. Set the selector switch on the desired course. S. Consect the line plug to the power suffet and has on the voltage control switch. After about



A standard of the State of State of the Landetters

resistance test circuit is given in Fig. 1. This should consists of a D.C. source of voltage, a recount tabe velmater and a sufficiently collected in manches. A all deader a select record "Be" obleb is becomed a decrease in the plate consent. The change to when current caused by the leakage of the condensor is shown directly on the mater scale in terms of mogohno To make the instrument ready for insulation resistance

tests proceed as follows: 1. Set the selector switch on position Mal (See chart

2. Switch the motor to the 5 ma, range

infinity (en) which is the rail position over the clips, across the condenser under examinetion and road the meter deflection, which is given

directle in manches. On low canache unity likemics condensors, the reading can be taken alread immediately; on higher especity units it will be channel and the mater deflection comes to rest this may take about I minute for a 1 mfd, caped tor. The difference in time between low and high canacity condenses is due to the difference in

the chareless rate. The high causely condense

3 to 100 megohnu 30 to 1000 megohms 300 to 10000 mesohme

If the mater deflection is counter than 100 manufaces on range MCC I, not selector switch an position MCC 10 and if it is will creater than 100 on this range, set the selector switch on reason ACC 100, the next bishest softing.

SATISFACTORY - Insulation values greater than 50 messions. (See note below.) I FAYY - lendston value less than 50 marching, (Re-

place condenser.) SHORTED OR LESS THAN 3 MEGOHAG - Male deflection reads seen. (Replace condenser.)

OPEN - No variation in the mater deflection. [Raplace gondenser.) The leakage check on paper, mice, blimmer, and all solid dialectric condensers is made in the manner de-

NOTE - The insulation resistance of 50 mecolins will he found satisfactory for most applications with the surantion of empline conductors. In the case of amount condenses the localities registence should be above 200 megaline.

Values of reddiers greater than 3 metodons can be tested on this range. The checks are made in the manner described above.



Floure 2 is a simplified circuit disgram of the electrohelp lasters test closely. The desired D.C. voltage selected by varying the voltage control, is impressed across the condenser under examination. The les nurset is read directly in miliamperes from a meter acress the condenser is obtained by depressing button marked "volts".

To make the instrument ready for a leakage test on an electrolytic conductor proceed as follows:

- I. Sat the selector switch on position "L".
- 1. Admit the unitarial excited to a few voltage with
- tion, Sindicator knob retated to left.) 4. Connect the test leads, with the rubber protectors over the clips, across the condensor under examination, the red lead connected to the positive side
 - of the condenser and the block lead to the seas-5. Now depress button marked "volty" and relate

the reliens control leads until the volumeter indicates the voltage at which the condenser is to he checked. This check is normally made at the sated working rollings of the condenses

New release the voltage butten and read the leabane current directly in milliampores on the mater. If the leakage current is less than 5 me. switch the motor from the 50 ma, range to the 5 ma range to that the leakage current can be med more code. When making this test always

been the miliammeter on the 50 ms. range uncool when estudy listing readings. The resear

for this is that it is impossible to damage the mater when it is adjusted for the high current range because the instrument has been designed to provent excess current from damaging the mater

SATISFACTORY — The leakage current should come down to 5 ma. in loss. The time required for the current to be reduced to this value depends upon the length of time the expecter has been out of

HIGH LEAKAGE — A condensor is which the heakage current does not come down to 5 ms. after 20 ft 30 minutes of application of rated 0.C, wilkage should be considered defective and replaced.

SHORTED --- Appreciable flickering in the Irakaga our

Tests of electrolytic condenses that have been out of service for long periods of time way by speeded up by continued adjustment of the voltage as that it is kept at the bolish autitor of the test voltage.

For example, as the belong current is reduced the COC to a village of them, a tradeoutly increase or miltig is not increase in the laskage current. Radeolg has been already to the control properties of the reduced in the control properties of the reduced in village current properties of the reduced in the village current properties of the reduced in the village control in the 20 control has the reservoir control and the control in the co

CAPACITY OF PAPER, MICA, TRIVINER, ELECTROLYTIC AND AIR CONDENSERS





A street diagram of the section of the Capacitor Exerciser used in capacitance measurements on the "O/A" node is shown in Figure 3 and for capacitance measurements on the "H" scale in Figure 4.

The test section is a unashed Wise Bridge which con-

The next section is a special Wine fielding within conciliat of paterimenter "ET," released capacities CT, CK, CJ and the unknown conclusar canonical across the fact terminols. The 60 cycle source verbings is obtained from a winding on the power treastreamer. The descretor employed to indicate hashess consists of a smaller VII, voltenate with a milliamenter is the plate singuit used as a real indicates.

To make the instrument ready for capacity and power factor checks, proceed as follows:

1. Set the selector periods on the position correspond

Care	of soften or !	Sait Selector Switch at	Socie by
.000011vi 2002 vi44.		CX 2001	,0001
U001	to 2 mfd	CX 41	SIGNACIO
.10	to 50 mfd.	CX1, etc. 445	1.0
50	44 2000 mild.	HOLL	. 1.0

- For CX switch satisfy, read capacity on C/R scale; for HX satisfy, read on H scale.]

 2. Switch the matter to the 5 res. range.
 - Connect the test leads, with the rubber protection over the clips, across the condensor under examination.
- Adjust the veltage control to appreciate 450 on the veltage control diel.
 New retate the capacity control dowly from right
- to left until maximum deflection is obtained on the meter. This is the "balance position". Copusity readings are shown directly on the callbrated cools of the instrument.

For electrolytic condensers, balance the capacity control as described above, and then adjust the Power Feeread the power factor directly from the scale. In this check the veltage control setting is not critical at all and mee be adjusted to any desired value to give a readable defection of the meter.

. If adulted for a bigh deflection the instrument in man applica than when adjusted for a low defection.

**Note: It is often derivable to rehalance the name citor control after the power factor adjustment has been made.

OFF CAPACITY - Condenses which measure more than 20% fower than rated canacity should be replaced by units of the correct value. For buyers and filter use no limit need generally be placed on the upper capacity limit. Special cause will be onesidered later.

The capacity of A.C. meter durling electrolytic conductors should be within +20% of rated waken for satisfactors operation. However, a dightly quater televance is necessable in some cases.

OPENS - Any condenses which can be believed only at "seen" on the capacity scale, after careful adinstrumes have been made with the selector switch in positions CX ,0001, CX ,01, CX 1, and HX 1, are egon and should be replaced.

INTERMITTENIS - An intermittent will be indicated by a noticeable fickering of the meter seeds. Re-

place conferent WIGH SOWER EACTING - Any condense for which . belance is not obtained on any position of the power fector control should be replaced. For A.C.

and motor startion electrolytic condenses, name fectors above 20% generally are umerisfectory. Such condenses should be resigned. SHORTED - Shorted condonars will balance on the

"tharf" position of the capacity control for any setting of the selector cellch if shorted solids. There will be so belance obtained if the short is Mak autotoco Storted conference will show on on the believe test or well.

In testing condensers of low capacity, about .001 mid and halos the leads to the conductor must be best short. But results will be obtained by planning the unit of the condesar leads directly into the tip lards. This is shown in Figure 5.



For ordinary filter use, condensors for which a comable belows may be obtained as any setting of the name factor control will researable be satisfactory, on tally in the name of high voltage electrolytic con-

The tabulation below indicates the filtering efficient

5%	.995
10%	. 390
15%	.995
20%	.960
25%	.564
30%	.951
35%	.531
40%	.511
45%	.811
50%	.867
60%	.800
70%	.711
80%	. A00
90%	ASI
00%	0

POWER FACTOR CORRECTION FOR LINE

The power fastive scale of the analyzer is cellbrated for measurement at 60 cycles. The appear model CE-3U is designated for operation at frequencies from 25 to 60 cycles. The shart in Figure 6 shows the correction to be applied to the measured values when the measurment is made at 25 and 40 cycles on Modell CE-3U.



PIG. 6

RESISTANCE TESTS FOR ALL TYPES OF RESISTOR



A simplified cloud diagram of the section of the Capacitor Exameter used in resistance measurements on the "C/R" scale is shown in Figure 7.

The test section is a conventional Wise Bridge which constant of potentionates R2, standard resistors R3, R4 and the calinous resistor connected series the test tennicals. The 60 cycle veltage supply is obtained from a winding on the power transformer. The detector encount to indicate habitory engine for a supply of the power transformer.

tube velocator with a milliammeter in the plate circult used as a nell indicator.

To make the instrument reads for regulators measure

To make the instrument ready for resistance measurements proceed as follows:

1. Set the solicular switch on the position correspond-

ing shocked as described laston.

Exclusion Range Set Selector Shiftigly C/R
Sock to Sock by

50 to 75,000 ohms RX 1000 1000 5000 to 7,5000,000 ohms RX 100,000 100,00

5000 to 7,5000,000 charg RX 100,000 100,000

2. Set the power factor control on zero position by

Switch the mater to the S ma, range.
 Connect the test leads, with the rubber perfectors

over the cips, across the resistance under test.

5. Adjust the voltage control to approximately 450 on the voltage control dist.

 Now rotate the large-center control dial slewly from left to right until maximum deflection is obtained on the noter. This is bulence position. Resistance readings are taken directly.
 For values of resistance alsows 7.500,000 obers, uso

as per the instructions given in that serties. Resistance values of 2 magazine to 12,000 magazine can be measured with the inpulation resistance section of the instrument.

D.C. VACUUM TUBE VOLTMETER
The D.C. V.T. voltmeter is used when enternal voltage

minimizements are desired. It is used in the same monter on any uniformy vollenative. On this 550 with range the voltenter has an imput resistance of 10,000 closes per with, on the 10 will range an imput resistance of 100,000 close per volt, and on the 14 volt range on imput resistance ref 310,000 when per volt. Measurements are obtained through superants toport terminals and the voltage indications are given. directly on the marker scale.

coed as follows:

1. Set the selector switch on the desired position as given in the following chert.

given in the followin	g chart.
Salarter Setting	Yultege Range on Meter Scole
LOV I	A ESS male

Old -die

- Issuet the text leads, with the rubber protection ever the ellips, into the tip jacks marked "D.C. wahs". The sed plug should be seemented to the rad jack and the blank plug to black jack to obtain the correct pointity.
- Switch the mater to the 5 milliampere range.
 Adjust the voltage control so that the water reads "O" on soile VA.C.. This is the self point.
 Now cannot the test leads across the voltage to be measured and read the meter deflection which

is given directly in volts.

A.C. VACUUM TUBE VOLTMETER

A.C. VACUUM TUBE VOLTMETER

The A.C. V.T. voltmeter is used as an output indicator
for circuit alignment. The voltmeter has an input resistance of 10 magginus and has a range of 10 to 50

- with D.C. To make the instrument roady for voltage checks, proceed as follows:

 1. Set the selector withch on peakins MOX 100.

 2. Insert for test leads, with the subber protectors over the sligh, late the fig Jarks marked "A.C.
 - volts".

 1. Switch the mater to the 5 ms. range.

 4. Added the voltage control to that the mater reads
 - 5 ma. This is the null point.

 5. Now connect the test leads across the veltage to be researed and read the meter deflection which

be measured and read the meter definition who is given in milliamperes.

To obtain the voltage measured refer to Figure 8.

USE RED CURVE FOR INSTRUME

NOTE: To see this shart the manusced value of milmagness is located at the believes of the chart. This magness resulting is introduced vertically to the profiles where 2 between which the same corresponding to the justifies at the infector review. From this point of introduction extend the resulting borizontally to the sultentian trade. This shows the value of the manuscred virtues, these detected line for each of the manuscred virtues, these detected line for

continuity checks may be perferred with this test instrument. One method of procedure makes use of the leakage check feature of this instrument.

- To make this check:
- Set the selector evitch on position "L".
 Suitch the mater to the 50 ms, range.
 - Adjust the vultage control to a low voltage position, (Indicator leads retained to left.)
- least the ted loads, with the robber prefectors over the clips, in the tip lesis marked "Cond. Test".
- Now short the ends of the test alips together and adjust the vallage control until the milliammeter reads about 10 milliamperes.
- 6. Disconnect the shorted test clips. The instrument is now ready for continuity shacks.

In making this test, the test ellips are connected across the circuit or should element under examination. If there is a complete circuit the meter will give a reading. If the circuit is open there will be no mater reading.

the circuit is open there will be no matter reading.

The milliammeter is edjected to 10 milliamperes under short circuit conditions as that the instrument will not be availabled under prolonged short circuited tests.

If a more small his indication is derived, we the milliangure matter on the 5 ms. respe and adjust the voltage count of so that he mater coast opercharity if million power. Under this condition the mater is and protested if the voltage content adjustment highpounts to be excellent by increased and therefore it is not advisable to use this 5 ms. respe encept in operall cases where an more sensitive indication is desired.

OPERATING INSTRUCTIONS FOR "QUICK-CHECK" SECTION

QUALITATIVE MEASUREMENTS

With quillative chelding It is not assument to disconnect this confidence from the sizes). The condenses under assuments can be shoulded in the sail under actual sportflow can be shoulded in the sail under actual sportflow confidence with the conditions disconnected born the circuit If district, although the first accountry. The intrinsect is no designed that the localization is delived and interference are reduced that the industries is delived and interference are reduced. The localization is delived and interference are reduced. The localization is delived and interference are reduced.

The range of the "Quick-Check" section is from 75 mml, to 50 mM.

To make the between ready for test, the following procedure should be followed:

1. Set the selector solich on the position rearked

 Insert the special twin conductor Quick-Check testleads late the tip jacks marked "Conductor Test".

The red play should be concepted into the red lest and the Mark hop jack the Mark Jed.

2. Switch the mater to the 6 me, range.

4. Address the velocies control on that the mater reads

4. Adjust the voltage control so that the mone reach 6 ms. This is the sull position.

5. Receive the capacity died to the extreme right on "Short" position.

The instrument is now ready to be used in making tentro on condensors. The tests should be made in the fel-

Test for spans or intermittently open condensors.
 Test for shorts or intermittently shorted condenses.

2. Test for high R.F. imagelance and high power

Now cannot the Quick-Check leads across the condense under examination. The black test prod should be accessful to the point market around. NOTE: The feet starts when the feet leads are connected acress the condenser. This is very important, as one must feet watch for feet indications at that manners of context.

OPEN TESTS

conducts: is connected series the lest terminals, then the condenser is open. Replace the conductor. Further, wheels are not securacy. If the conductors in not open the milliamentar resulting will change from I ma. to a lower value. Open tests can be made even though the condenser is sharfed by an industrance or resistance.

INTERMITTENT TESTS

reading varies back and faith from 5 millionpores to a hour value, then the condinear has an intermittant consection. Replace the condinear.

A note of eastine should be introduced at this point.
The operator should be over that the test leads are

The operator should be save that the feel leads are securely plugged into the tip jooks and the alligator edge securely featured to the condenses terminals under text otherwise, the text may indicate an intermittent condenses when the feelt is the result of a poor connection.

SHORT TEST

If the utilianmenter reading decreases to a lower value when the test clips are connected across the condenser, this is a positive indication that the condenser is not open. It is now necessary to deseroise by another test whether the condenser is shorted.

for this text. If θ is known that the unknown expansing in less than 0.00 mid, then deposes peak butter Λ^{α} . If the expansity is above this value, then depose point having the Λ^{α} is the north-reading solution (fig. 1) like a non-linear particles and Λ^{α} is the conditioner in the shorter of Λ^{α} in the conditioner is therefore. If the non-linear models constant, remains constant, or horsease globyly then the conditioner is not denired.

When the connective of the conditioner under test is

net known a double check is necessary. Bed, depress lation "L" and thes latter "I" and if the condenses is shorted the meter reading will orburs to 5 milliampours to sake case. If the rester reading does not return to 5 milliampores in sack case, then the condenses in an aborted error frough it those their when can bottom in an aborted error frough it those their when can betten is dispensed. In other works if a condenser is discreted it will show about its both cases. The short circuit test is effective even though the exchange is shurted by an industrace or residence.

Make more that the push buttiess are present of the way down in making the short feet. It is assertions happens that the nester needing will finder as the push buttom are primed down. This is a result of champing the inhursal closed connections and in sent infinitely of an inhursal color of the buttom in bull down and the next needle fishers, then this is a positive indication that the condenser is interestitutely shorted.

ELENTARY INFORMATION

Now a weed in general about informitteet condensers, supplementing the information previously given for in-termitteet opens and intermitteet oberts.

An informitteet condenser may be the result of a pressure context only, between the terminals and the condenser sentine proper, and this connection will be

incline IV the soft is subjected for mechanical efficiency or temperature, changes. It is supported that the conditions to move the conditions of the cond

If the unit becomes intermittent as a read of temperature, the mater indicator will fisher.

The accuracy of this shock will not be affected even if the condensor under test is showing by an inductance

or a resistance,

The Quick-Check offers a convenient method for inducating abstractive capacities which have high power factor and high RF, impendence. In assertions happene that in checking an electricity to enclosure there will be estilizate a quantitations in the actival to indicate that the small in clary. However, the power factor will be to take a to easily the convenience and the state of the contractive and the consolities ready on artificial selftraction.

The power factor check is made by connecting the Quick-Check leads assess the electrolytic condenser under test and if the condenser is not open, the matter reading will decrease from 5 ms. to a lower reading. If the problemtes "L" is then deposeed, the matter creating will indigate whether the condenser has a high power

factor or not, if the meter reading door not return to 5 milliamperes when the button is depressed, then the condenser is defective. It has other a high power factor

denser is defective. It has other a high power factor or high R.F. impedance so both.

If the condenser is then clusted with a .1 mid. fulnder paper condenser and or a result the should dishinkance

pager condesser and as a result the circuit distribution is classed up, this is an infection thigh RF, image-dance. If the circuit distribution is not classed up, and particularly if this house in class of the capacitate has been in rested, them has expected the high power factor. In other case, the capacitar should be registered. A faither circle in the reasons the capacitance with the Winter circle in a resultance with the Winter circle in a measure that capacitance with the Winter being and if the value is substantially believe the capacitance temped on the care, this has been been discussed in a substitution of the capacitance temped on the care, this has been been discussed on an examination of the capacitance of the cap

he nextus assure some schedulytic condensure and 45ter type paper with where up a many less shapes in matter definedits when condensure in connected served when they are settled about 15-15 in the settled served when they are settled about 15-15 in the settled served shapes and the settled served to the settled served shapes and the settled served to the settled served for the settled served served to the settled served for the settled served s

nonmarily defective. They may or may not come instacking depending upon the circuit design in which flary are used. This will have to be left to the judgment of the person making the checks.

When using the Quick-Check section of the indrament, indications are given by the resistion in the mater deflection and not by the magnitude of the defluction.

When working on various sets there will be a difference in the angallude of the metre deflection from see all to the effect when can did at the condenser is entineeded to the clearly. The magnitude of the deflection plays as part in the testing of the condenser as indication of quality is given only by the variation in the meter deflection. The difference is measurable of the meter deflection the other than the condense and the deflection to the condense are the condense and the production from details to do to the verificion in impedience from behavior to quality.

If a case accurs in which no moter deflection is given when the test leads are connected across a condenser that is grounded to the cheefs, the analyser is than NOTE: The instrument should sever be grounded for

It is important to realize that if "Quick-Cincis" qualitative tests are run first, it will often be unnexamen to make the more tedious quantitative abouts, as defective units often may thus be spetted without disconnecting than

READJUSTMENT OF THE QUICK-CHECK SECTION OF THE MODEL OF EXAMIFIER

Due to rough handling in shipment, the Quick-Cloud serials of the Capacitor Earn-ster constitute goes out of adjustment. Improper adjustment will be indicated by one or more of the following conditions.

- It is impossible to set the meter on the null position. The meter will give an indication somewhat less than \$20 ms. ever when the voltage central is set at maximum.
- When the motor is adjusted to the rull position (S.0 ma.) It will indicate a value slightly greater than 5.0 ma. when either one of the test proofs are grounded or touched by the hand.
- Lack of sensitivity; that is, the instrument will give so indication as low capacities. The Quick-Check circuit should check all capacities from 75 mml. and above.

The Quick-Check circuit of the analyser can be readjusted very simply. The procedure to be followed for readjustment is as follows:

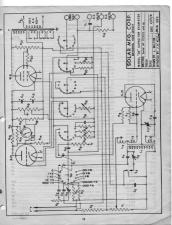
Set the analyses for dynamic checking and insert the test leads into the lip jacks. Do not than the test clips tegether. Now take the "red" but clip is one hand and adjust the wolkege control so that mater deflection is 5.0 ms.

Now release the red test lead and edjort the frimmer control through the hole in the side of the case just below the condenser test terminals to the point where the matter deflection changes sharply from a value less than 5.0 ms. to 5.0 ms.

Proper adjustment of the analyzer will be realized when the following conditions are fulfilled: East the mater defection can be readly set at \$4.

ma, and will not vary when the red test clip is held in the hand.

Secondly, the motor reading will decrease from 5.0 ma, to a samewhat lower value when 70 to 100 med, readance is connected across the test clies.



MODEL OF EXAMEN

Drawing	Solar Catalog Number	Description	Bealer NET Co
RI	CD324	13,000 ohms posterflometer	\$1.0
82	CF-17	119,500 ohms ±2% 1 w.	
83	CD-349	400,000 ohms	
24	CEAN	4.000 chrs ±256 % 5 w.	
RS V	CF-Y	388 ches potesticesofer	A
14	CF-16-1	4 nicohra	
97	C8-26	I megohin	
11	00.9	50,000 china	
89	C8-29	10 megehas	-
R10	CF-15	.l respire	3
FILE	CE14	LA manhe	
812	CE-13	10. menches	
RIX	CELLI	1.000 chas patentiameter	Little Ballion Control of the Contro
814	CF-10	5.000 ohms	
RIS	CEIL4	500 abers	-
BIA	CEU	2.8 shus	teritoria de la
817	CELLS	500 chrs	
811	CF4	117.500 ohru	
817	CF.7	105,000 ohms valtage divider	
820	CASA	I mandon.	
821	CEA	1/2 reagones port,/on-off line switch	
R22	CE14	1.0 magains	THE VALUE OF THE PARTY OF
R22	CFIS	,I magazin	to the same of the
100	01.15		
CI	CQ-19	.02 reld, paper	
CZ	CD-333	4.0 mfd. paper, Duravelt	0.1
CI	CD-334	A4 reld, paper, Duravell	
C4 0	CF-19	,0004 friemer	-
CS	CO.12 -	A01 mld, miss	orange on leasurement ?
C# 00000	CFIF	J0004 Minimar	
CY.	00.86	JOS mica	Salaman L
CR .	CO-13	.0001 m/ca	
CP	CQ-10	52 tates	
CIA	CO-19	D2 paper	
CII	CF-30	8 mfd, 350 VW electrolytic	
CIZ	C8.33	8 mfd, 350 YW electrolytic	
CIA	OQ-13	,001 mica	
			01
T	CF-5	Power Transformer	2007
L1-2-3	CQ-27	Oscillator coll	
51	CQ-33A	R.R.C.	
	00-15	D. P. D. T. push button switch	
52	CQ-16	S. P. D. T. push button switch	
54	00-18	Milliampere range switch	7
м	CM4	Meter	7.
		6 gang rotery switch	



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